		·		···	Exhibit <b>D</b>
je No					Appl. No. 09/558,421
	ì				
Oligos aere	ordered	@ 582 A & F 667	Y on		
, , , , , , , , , , , , , , , , , , ,		Y671			
SEQU	ENCE 267 \$				
		•	ER	2170	Q 582 A
5 -GAC-GG GG-AT (	GG-GAT-GTT-CG	C-GAG-GTT-G ut created	<b>-</b>	<b>26</b>	Q 582 A
			m. 1 . 11		
SEQU	JENCE2(8	0, 33 -1	MER		F 1 ( = ) (
	GAG-GAC-CCC-G			# 2680	F 667 Y
GT-CT	r-GGC-CG (C)	3. Ase I created	•		
	•			***************************************	
				- en . m	
SEO	UENCE27	<b>23</b> , 30 -	MER		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~
		TCC-GGA-GAG-G		# 27	23 Y 671 S
5 -GTG AC-C	=GGC=CGA=CA1=	BSIEI created			
•					
44 ! /					
Mutant				· · · · · · · · · · · · · · · · · · ·	·· <del>···</del> ·····
					loop as /uf
Mutan( Q 582 A :	34 o.D →	dissolved in	102gul TE: 1	ug/jul	= 1000 ng /sul
	27 mer ≡	27 x 0,33 =	8,91 ng/f	ng/jul :	= 1000 ng /suf
	27 mer ≡	dissolved in 27 x 0.33 = 100 = 112 pmol	8,91 ng/f	ug/jul :	= 1000 ng /sil
	27 mer ≡	27 x 0,33 =	8,91 ng/f	ng/jul :	€ 1000 ng /suf
& 582 A : ∴	27 mer = Cone =	27 x 0.33 = 100 = 112 pmol	/M	- mol	
	27 mer = Cone = 33 or →	27 x 0.33 =  100 = 112 pmol  8.91 = 112 pmol	8:91 ng/f /M 19021 下:	mol o∞ng/ul	(1/19/ne)
& 582 A : ∴	$27 mer \equiv$ $Cone =$ $33 \text{ or } \Rightarrow$ $33 \text{ her } \equiv$	$27 \times 0.33 = \frac{100}{8.91} = 112 \text{ pmol}$ dissolved in compared	8:91 ng/f /wl 190, wl TE: 1 89: pag/pala	omol	(1/19/ne)
& 582 A :	$27 mer \equiv$ $Cone =$ $33 \text{ or } \Rightarrow$ $33 \text{ her } \equiv$	$27 \times 0.33 = \frac{100}{8.91} = 112 \text{ pmol}$ dissolved in compared	8:91 ng/f /wl 190, wl TE: 1 89: pag/pala	omol	(1/19/ne)
& 582 A :	$27 mer \equiv$ $Cone =$ $33 \text{ ord } \rightarrow$ $33 \text{ her } \equiv$ $\therefore Cone.$	$27 \times 0.33 = \frac{100}{8.91} = 112 \text{ pmol}$ dissolved in 6 $33 \times 0.133 = 10$ $10.89$	8:91 ng/f /nl 1902l TE: 1 89 png/psh 91 pnul/m	owng ful	(1/19/ne)
& 582 A :	$27 mer \equiv$ $Cone =$ $33 \text{ ord } \rightarrow$ $33 \text{ her } \equiv$ $\therefore Cone.$	$27 \times 0.33 = \frac{100}{8.91} = 112 \text{ pmol}$ dissolved in 6 $33 \times 0.133 = 10$ $10.89$	8:91 ng/f /nl 1902l TE: 1 89 png/psh 91 pnul/m	owng ful	(1/19/ne)
& 582 A :	$ \begin{array}{rcl} 27  \text{mer} & = & \\ \hline \text{Cone} & = & \\ 33  \text{orb} & \rightarrow & \\ 33  \text{her} & = & \\ & & & & \\ \hline 2  \text{orc} & \rightarrow & \\ \end{array} $	27 x 0.33 =  100 = 112 pmol  8.91 = 112 pmol  dissolved in c  33 x 0.133 = 10.  10.89  dissolved in (	8:91 ng/f /nl 190, ll TE: 1 89 prog/pala 91 prool/m	owng ful	(1/19/ne)
& 582 A :	27 mer $\equiv$ Cone =  33 orb $\Rightarrow$ 33 her $\equiv$ $\therefore$ Cone.  2 or $\Rightarrow$ 30 mer $\equiv$	27 x 0.33 =  100 = 112 pmol  8.91 = 112 pmol  dissolved in c  33 x 0.33 = 10.  10.89  dissolved in (  9.9 ng/pnol	8:91 ng/f /nl 190, ll TE: 1 89 prog/pala 91 prool/m	owng ful	(1/19/ne)
& 582 A :	$ \begin{array}{rcl} 27  \text{mer} & = & \\ \hline \text{Cone} & = & \\ 33  \text{orb} & \rightarrow & \\ 33  \text{her} & = & \\ & & & & \\ \hline 2  \text{orc} & \rightarrow & \\ \end{array} $	27 x 0.33 =  100 = 112 pmol  8.91 = 112 pmol  dissolved in c  33 x 0.33 = 10.  10.89  dissolved in (  9.9 ng/pnol	8:91 ng/f /nl 190, ll TE: 1 89 prog/pala 91 prool/m	owng ful	(1/19/ne)
& 582 A :  F 667 Y :  Y 671 S :	$27 \text{ mer} \equiv$ $Cone =$ $33 \text{ orb} \Rightarrow$ $33 \text{ her} \equiv$ $0 \text{ orc}$ $2 \text{ orc}$ $30 \text{ mer} \equiv$ $0 \text{ fonc} =$	27 x 0.33 =  100 = 112 pmol  8.91 = 112 pmol  dissolved in a  33 x 0.133 = 10.  10.89  dissolved in a  9.9 ng/pnol  101 pmol/rd.	8:91 ng/f /nl 190, ll TE: 1 89 prog/pala 91 prool/m	1 000 A9/	To Page No.
& 582 A :	$27 \text{ mer} \equiv$ $Cone =$ $33 \text{ orb} \Rightarrow$ $33 \text{ her} \equiv$ $0 \text{ orc}$ $2 \text{ orc}$ $30 \text{ mer} \equiv$ $0 \text{ fonc} =$	27 x 0.33 =  100 = 112 pmol  8.91 = 112 pmol  dissolved in c  33 x 0.33 = 10.  10.89  dissolved in (  9.9 ng/pnol	8:91 ng/f /nl 190, ll TE: 1 89 prog/pala 91 prool/m	1 000 A9/	To Page No
& 582 A :  F 667 Y :  Y 671 S :	$27 \text{ mer} \equiv$ $Cone =$ $33 \text{ orb} \Rightarrow$ $33 \text{ her} \equiv$ $0 \text{ orc}$ $2 \text{ orc}$ $30 \text{ mer} \equiv$ $0 \text{ fonc} =$	27 x 0.33 =  100 = 112 pmol  8.91 = 112 pmol  dissolved in a  33 x 0.133 = 10.  10.89  dissolved in a  9.9 ng/pnol  101 pmol/rd.	8:91 ng/f /wl 190ml TE: 89 prog/pulm 91 prool/m	1 000 A9/	(IM9/M)  To Page No.